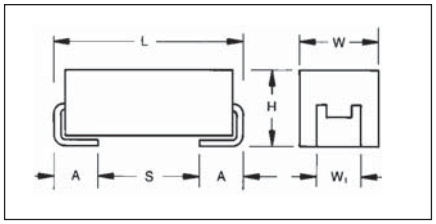
TAZ Series

HRC5000 Medical Implantable Grade



MARKING

(White marking on black body)

Polarity Stripe (+)

Capacitance Code
Rated Voltage

The TAZ HRC5000 Medical Grade series is designed for use in medical implantable applications. These are based off of the MIL-PRF-55365 case sizes and feature extremely low DC leakage levels well below typical values.

These components are manufactured and tested in the AVX Biddeford Maine factory which is ISO 13485 certified. Weibull grading and surge current testing options per MIL-PRF-55365 are available along with several plating options including tin/lead solder, 100% tin, or gold terminations.

To request an additional rating not listed here, or for more information on HRC5000 testing details, please contact the factory.

For moisture sensitivity levels please refer to the High Reliability Tantalum MSL section located in the back of the High Reliability Tantalum Catalog.

CASE DIMENSIONS:

millimeters (inches)

Case Code	Length (L) ±0.38 (0.015)	Width (W) ±0.38 (0.015)	Height (H) ±0.38 (0.015)	Term. Width (W_1)	Term. Length (A) +0.25/-0.13 (+0.010/-0.005)	S min	Typical Weight (g)
A	2.54 (0.100)	1.27 (0.050)	1.27 (0.050)	1.27±0.13 (0.050±0.005)	0.76 (0.030)	0.38 (0.015)	0.016
B	3.81 (0.150)	1.27 (0.050)	1.27 (0.050)	1.27±0.13 (0.050±0.005)	0.76 (0.030)	1.65 (0.065)	0.025
C	5.08 (0.200)	1.27 (0.050)	1.27 (0.050)	1.27±0.13 (0.050±0.005)	0.76 (0.030)	2.92 (0.115)	0.035
D	3.81 (0.150)	2.54 (0.100)	1.27 (0.050)	2.41+0.13/-0.25 (0.095+0.005/-0.010)	0.76 (0.030)	1.65 (0.065)	0.045
E	5.08 (0.200)	2.54 (0.100)	1.27 (0.050)	2.41+0.13/-0.25 (0.095+0.005/-0.010)	0.76 (0.030)	2.92 (0.115)	0.065
F	5.59 (0.220)	3.43 (0.135)	1.78 (0.070)	3.30±0.13 (0.130±0.005)	0.76 (0.030)	3.43 (0.135)	0.125
G	6.73 (0.265)	2.79 (0.110)	2.79 (0.110)	2.67±0.13 (0.105±0.005)	1.27 (0.050)	3.56 (0.140)	0.205
H	7.24 (0.285)	3.81 (0.150)	2.79 (0.110)	3.68+0.13/-0.51 (0.145+0.005/-0.020)	1.27 (0.050)	4.06 (0.160)	0.335

CAPACITANCE AND RATED VOLTAGE, V_R (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage								
µF	Code	4V	6V	10V	12V	15V	20V	25V	35V	50V
0.10	104									A
0.15	154									A
0.22	224								A	
0.33	334							A		
0.47	474						A		B	
0.68	684					A				
1	105			A		A	A/B	B	D	E
1.5	155		A	A		B	D			
2.2	225	A	A	A/B		A/B/C	B/D	D/E		F
3.3	335		A/B	A/B		B/D	E	E	F	G
4.7	475	A/B	A	B/D		B/D/E	D/E	F		
6	605									
6.8	685	A	D	B/D/E			D/E	F		
10	106	D	B/D/E	B/D/E		D/E/F	E	G	H	
14	146			E						
15	156		B/D/F	D/E/F		E	F/G			
22	226		F	D/E/F	E	F/G	G/H	H		
33	336	E/F	E	F/G		F/H				
47	476	E	E/F/G	F/G/H		G	H			
68	686	E/G	E/F/G/H	G						
100	107	F	G	H		H				
150	157		G	H						
220	227			H						
300	307		H							
330	337		H							

TAZ Series

HRC5000 Medical Implantable Grade

HOW TO ORDER

TAZ	E	106	*	010	C	□	L	@	5	^	++
Type	**Case Size**	**Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	**Capacitance Tolerance** J = ±5% K = ±10% M = ±20%	**Voltage Code** 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	**ESR** C = Std ESR L = Low ESR	**Packaging** B = Bulk R = 7" T&R W = Waffle	**Inspection Level** L = Group A	**Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf.	**Qualification Level** 5 = HRC5000	**Termination Finish** H = Solder Plated 0 = Solder Fused 9 = Gold Plated 7 =100% Tin	**Surge Test Option** 00 = None 23 = 10 Cycles, +25ºC 24 = 10 Cycles, -55ºC & +85ºC 45 = 10 Cycles, -55ºC & +85ºC before Weibull

LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

For RoHS compliant products, please select correct termination style.

*Contact factory for AVX HRC5000 Medical Grade SCD details.

TECHNICAL SPECIFICATIONS

Technical Data:		Unless otherwise specified, all technical data relate to an ambient temperature of 25°C							
Capacitance Range:		0.10 µF to 330 µF							
Capacitance Tolerance:		±5%; ±10%; ±20%							
Rated Voltage (V_R)	≤ 85°C:	4	6	10	15	20	25	35	50
Category Voltage (V_C)	≤ 125°C:	2.7	4	6.7	10	13.3	16.7	23.3	33.3
Surge Voltage (V_S)	≤ 85°C:	5.3	8	13.3	20	26.7	33.3	46.7	66.7
Surge Voltage (V_S)	≤ 125°C:	3.5	5.3	8.7	13.3	17.8	22.2	31.1	44.5
Temperature Range:		-55°C to +125°C							

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RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating										Typical RMS Ripple Data by Rating						
		Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF max			Power Dissipation	25ºC Ripple Current	85ºC Ripple Current	125ºC Ripple Current	25ºC Ripple Voltage	85ºC Ripple Voltage	125ºC Ripple Voltage
AVX P/N	Case	µF @ 25ºC	V @ +85ºC	Ohms @ +25ºC	+25°C (µA)	+85°C (µA)	+125°C (µA)	+25°C (%)	+(85/125)°C (%)	-55°C (%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)
TAZA225*004L□L@5^++	A	2.2	4	4	0.100	1.000	1.200	6	8	8	0.050	0.112	0.101	0.045	0.447	0.402	0.179
TAZA475*004L□L@5^++	A	4.7	4	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB475*004L□L@5^++	B	4.7	4	3.2	0.100	1.000	1.200	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZA685*004L□L@5^++	A	6.8	4	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZD106*004L□L@5^++	D	10	4	1.3	0.100	1.000	1.200	8	8	10	0.080	0.248	0.223	0.099	0.322	0.290	0.129
TAZE336*004L□L@5^++	E	33	4	0.9	0.330	3.300	3.960	8	10	12	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZF336*004L□L@5^++	F	33	4	0.6	0.330	3.300	3.960	8	10	12	0.100	0.408	0.367	0.163	0.245	0.220	0.098
TAZE476*004L□L@5^++	E	47	4	0.9	0.470	4.700	5.640	8	10	12	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZE686*004L□L@5^++	E	68	4	0.9	0.680	6.800	8.160	8	10	12	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZG686*004L□L@5^++	G	68	4	0.275	0.680	6.800	8.160	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZF107*004L□L@5^++	F	100	4	0.55	1.000	10.000	12.000	10	12	12	0.100	0.426	0.384	0.171	0.235	0.211	0.094
TAZA155*006L□L@5^++	A	1.5	6	4	0.100	1.000	1.200	6	8	8	0.050	0.112	0.101	0.045	0.447	0.402	0.179
TAZA225*006C□L@5^++	A	2.2	6	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZA335*006L□L@5^++	A	3.3	6	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB335*006L□L@5^++	B	3.3	6	3.2	0.100	1.000	1.200	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZA475*006L□L@5^++	A	4.7	6	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZD685*006L□L@5^++	D	6.8	6	1.5	0.102	1.020	1.224	6	8	8	0.080	0.231	0.208	0.092	0.346	0.312	0.139
TAZB106*006L□L@5^++	B	10	6	3.2	0.150	1.500	1.800	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD106*006C□L@5^++	D	10	6	6	0.150	1.500	1.800	6	8	8	0.080	0.115	0.104	0.046	0.693	0.624	0.277
TAZE106*006L□L@5^++	E	10	6	1	0.150	1.500	1.800	8	10	12	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZB156*006L□L@5^++	B	15	6	3.2	0.225	2.250	2.700	8	10	10	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD156*006L□L@5^++	D	15	6	1.7	0.225	2.250	2.700	8	10	12	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZF156*006C□L@5^++	F	15	6	0.3	0.225	2.250	2.700	6	8	8	0.100	0.577	0.520	0.231	0.173	0.156	0.069
TAZF226*006L□L@5^++	F	22	6	0.6	0.330	3.300	3.960	8	10	12	0.100	0.408	0.367	0.163	0.245	0.220	0.098
TAZE336*006L□L@5^++	E	33	6	1	0.495	4.950	5.940	6	8	8	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZE476*006C□L@5^++	E	47	6	5	0.705	7.050	8.460	6	8	8	0.090	0.134	0.121	0.054	0.671	0.604	0.268
TAZF476*006L□L@5^++	F	47	6	1	0.705	7.050	8.460	8	10	12	0.100	0.316	0.285	0.126	0.316	0.285	0.126
TAZG476*006L□L@5^++	G	47	6	0.275	0.705	7.050	8.460	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZE686*006C□L@5^++	E	68	6	2	1.020	10.200	12.240	10	12	12	0.090	0.212	0.191	0.085	0.424	0.382	0.170
TAZF686*006L□L@5^++	F	68	6	0.4	1.020	10.200	12.240	10	12	12	0.100	0.500	0.450	0.200	0.200	0.180	0.080
TAZG686*006L□L@5^++	G	68	6	0.25	1.020	10.200	12.240	10	12	12	0.125	0.707	0.636	0.283	0.177	0.159	0.071
TAZH686*006L□L@5^++	H	68	6	0.18	1.020	10.200	12.240	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZG107*006L□L@5^++	G	100	6	0.275	1.500	15.000	18.000	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZG157*006L□L@5^++	G	150	6	0.275	2.250	22.500	27.000	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZH307*006C□L@5^++	H	300	6	0.9	4.500	45.000	54.000	15	18	18	0.150	0.408	0.367	0.163	0.367	0.331	0.147
TAZH337*006L□L@5^++	H	330	6	0.18	4.950	49.500	59.400	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZR334*010C□L@5^++	R	0.33	10	50	0.100	1.000	1.200	6	8	8	0.030	0.024	0.022	0.010	1.225	1.102	0.490
TAZA105*010L□L@5^++	A	1	10	5	0.100	1.000	1.200	6	8	8	0.050	0.100	0.090	0.040	0.500	0.450	0.200
TAZA155*010C□L@5^++	A	1.5	10	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZA225*010L□L@5^++	A	2.2	10	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB225*010L□L@5^++	B	2.2	10	3.2	0.100	1.000	1.200	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZA335*010L□L@5^++	A	3.3	10	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZB335*010C□L@5^++	B	3.3	10	18	0.100	1.000	1.200	6	8	8	0.070	0.062	0.056	0.025	1.122	1.010	0.449

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

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HRC5000 Medical Implantable Grade

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating										Typical RMS Ripple Data by Rating						
		Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF max			Power Dissipation	25ºC Ripple Current	85ºC Ripple Current	125ºC Ripple Current	25ºC Ripple Voltage	85ºC Ripple Voltage	125ºC Ripple Voltage
AVX P/N	Case	µF @ 25ºC	V @ +85ºC	Ohms @ +25ºC	+25°C (µA)	+85°C (µA)	+125°C (µA)	+25°C (%)	+(85/125)°C (%)	-55°C (%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)
TAZB475*010L□L@5^++	B	4.7	10	3.2	0.200	2.000	2.400	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD475*010L□L@5^++	D	4.7	10	1.5	0.200	2.000	2.400	6	8	8	0.080	0.231	0.208	0.092	0.346	0.312	0.139
TAZB685*010L□L@5^++	B	6.8	10	3.2	0.170	1.700	2.040	6	8	8	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD685*010L□L@5^++	D	6.8	10	1.7	0.170	1.700	2.040	6	8	8	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZE685*010L□L@5^++	E	6.8	10	1	0.170	1.700	2.040	6	8	8	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZB106*010L□L@5^++	B	10	10	3.2	0.250	2.500	3.000	8	10	10	0.070	0.148	0.133	0.059	0.473	0.426	0.189
TAZD106*010L□L@5^++	D	10	10	1.3	0.250	2.500	3.000	6	8	8	0.080	0.248	0.223	0.099	0.322	0.290	0.129
TAZE106*010L□L@5^++	E	10	10	1	0.250	2.500	3.000	6	8	8	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZE146*010C□L@5^++	E	14	10	3	0.350	3.500	4.200	6	8	8	0.090	0.173	0.156	0.069	0.520	0.468	0.208
TAZD156*010L□L@5^++	D	15	10	1.7	0.375	3.750	4.500	6	8	8	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZE156*010L□L@5^++	E	15	10	0.9	0.375	3.750	4.500	8	10	10	0.090	0.316	0.285	0.126	0.285	0.256	0.114
TAZF156*010L□L@5^++	F	15	10	0.7	0.375	3.750	4.500	8	8	10	0.100	0.378	0.340	0.151	0.265	0.238	0.106
TAZD226*010C□L@5^++	D	22	10	8	0.550	5.500	6.600	6	8	8	0.080	0.100	0.090	0.040	0.800	0.720	0.320
TAZE226*010L□L@5^++	E	22	10	0.6	0.550	5.500	6.600	8	10	10	0.090	0.387	0.349	0.155	0.232	0.209	0.093
TAZF226*010C□L@5^++	F	22	10	3	0.550	5.500	6.600	8	10	10	0.100	0.183	0.164	0.073	0.548	0.493	0.219
TAZF336*010L□L@5^++	F	33	10	0.4	0.825	8.250	9.900	8	10	10	0.100	0.500	0.450	0.200	0.200	0.180	0.080
TAZG336*010L□L@5^++	G	33	10	0.275	0.825	8.250	9.900	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZF476*010L□L@5^++	F	47	10	0.4	1.175	11.750	14.100	10	12	12	0.100	0.500	0.450	0.200	0.200	0.180	0.080
TAZG476*010L□L@5^++	G	47	10	0.25	1.175	11.750	14.100	10	12	12	0.125	0.707	0.636	0.283	0.177	0.159	0.071
TAZH476*010L□L@5^++	H	47	10	0.18	1.175	11.750	14.100	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZG686*010L□L@5^++	G	68	10	0.275	1.700	17.000	20.400	10	12	12	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZH107*010L□L@5^++	H	100	10	0.18	2.500	25.000	30.000	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZH157*010L□L@5^++	H	150	10	0.18	3.750	37.500	45.000	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZH227*010L□L@5^++	H	220	10	0.18	5.500	55.000	66.000	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZE226*012C□L@5^++	E	22	12	0.5	0.660	6.600	7.920	6	8	8	0.090	0.424	0.382	0.170	0.212	0.191	0.085
TAZA684*015L□L@5^++	A	0.68	15	6	0.100	1.000	1.200	6	8	8	0.050	0.091	0.082	0.037	0.548	0.493	0.219
TAZA105*015L□L@5^++	A	1	15	7.5	0.100	1.000	1.200	6	8	8	0.050	0.082	0.073	0.033	0.612	0.551	0.245
TAZA225*015L□L@5^++	A	2.2	15	7.5	0.200	2.000	2.400	6	8	8	0.050	0.082	0.073	0.033	0.612	0.551	0.245
TAZB225*015C□L@5^++	B	2.2	15	5.5	0.100	1.000	1.200	6	8	8	0.070	0.113	0.102	0.045	0.620	0.558	0.248
TAZB335*015L□L@5^++	B	3.3	15	3.6	0.290	2.900	3.480	6	8	8	0.070	0.139	0.125	0.056	0.502	0.452	0.201
TAZD335*015L□L@5^++	D	3.3	15	1.7	0.124	1.238	1.485	6	8	8	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZB475*015L□L@5^++	B	4.7	15	2	0.250	2.500	3.000	6	8	8	0.070	0.187	0.168	0.075	0.374	0.337	0.150
TAZD475*015L□L@5^++	D	4.7	15	2	0.250	2.500	3.000	6	8	8	0.080	0.200	0.180	0.080	0.400	0.360	0.160
TAZE475*015L□L@5^++	E	4.7	15	1.2	0.245	2.450	2.940	6	8	8	0.090	0.274	0.246	0.110	0.329	0.296	0.131
TAZD106*015L□L@5^++	D	10	15	2	0.375	3.750	4.500	6	8	8	0.080	0.200	0.180	0.080	0.400	0.360	0.160
TAZE106*015L□L@5^++	E	10	15	1.2	0.375	3.750	4.500	6	8	8	0.090	0.274	0.246	0.110	0.329	0.296	0.131
TAZF106*015L□L@5^++	F	10	15	0.667	0.375	3.750	4.500	6	8	8	0.100	0.387	0.348	0.155	0.258	0.232	0.103
TAZE156*015L□L@5^++	E	15	15	1.2	0.563	5.625	6.750	6	8	8	0.090	0.274	0.246	0.110	0.329	0.296	0.131
TAZF226*015L□L@5^++	F	22	15	0.8	0.825	8.250	9.900	8	10	10	0.100	0.354	0.318	0.141	0.283	0.255	0.113
TAZG226*015L□L@5^++	G	22	15	0.275	0.825	8.250	9.900	6	8	8	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZF336*015L□L@5^++	F	33	15	0.8	1.238	12.375	14.850	6	8	8	0.100	0.354	0.318	0.141	0.283	0.255	0.113
TAZH336*015L□L@5^++	H	33	15	0.18	1.238	12.375	14.850	8	8	10	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZG476*015L□L@5^++	G	47	15	0.275	1.763	17.625	21.150	8	10	10	0.125	0.674	0.607	0.270	0.185	0.167	0.074

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

TAZ Series

HRC5000 Medical Implantable Grade

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating										Typical RMS Ripple Data by Rating						
		Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF max			Power Dissipation	25ºC Ripple Current	85ºC Ripple Current	125ºC Ripple Current	25ºC Ripple Voltage	85ºC Ripple Voltage	125ºC Ripple Voltage
AVX P/N	Case	µF @ 25ºC	V @ +85ºC	Ohms @ +25ºC	+25°C (µA)	+85°C (µA)	+125°C (µA)	+25°C (%)	+(85/125)°C (%)	-55°C (%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)
TAZH107*015L□L@5^++	H	100	15	0.18	3.750	37.500	45.000	10	12	12	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZA474*020L□L@5^++	A	0.47	20	7.5	0.100	1.000	1.200	8	8	10	0.050	0.082	0.073	0.033	0.612	0.551	0.245
TAZA105*020L□L@5^++	A	1	20	7.5	0.100	1.000	1.200	6	8	8	0.050	0.082	0.073	0.033	0.612	0.551	0.245
TAZB105*020L□L@5^++	B	1	20	4.8	0.100	1.000	1.200	6	8	8	0.070	0.121	0.109	0.048	0.580	0.522	0.232
TAZB155*020L□L@5^++	B	1.5	20	3.6	0.100	1.000	1.200	6	8	8	0.070	0.139	0.125	0.056	0.502	0.452	0.201
TAZB225*020L□L@5^++	B	2.2	20	3.6	0.110	1.100	1.320	6	8	8	0.070	0.139	0.125	0.056	0.502	0.452	0.201
TAZD225*020L□L@5^++	D	2.2	20	1.7	0.225	2.250	2.700	6	8	8	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZE335*020L□L@5^++	E	3.3	20	1.2	0.165	1.650	1.980	6	8	8	0.090	0.274	0.246	0.110	0.329	0.296	0.131
TAZD475*020C□L@5^++	D	4.7	20	6	0.235	2.350	2.820	6	8	8	0.080	0.115	0.104	0.046	0.693	0.624	0.277
TAZE475*020L□L@5^++	E	4.7	20	1.7	0.235	2.350	2.820	6	8	8	0.090	0.230	0.207	0.092	0.391	0.352	0.156
TAZD685*020C□L@5^++	D	6.8	20	4	0.450	4.500	5.400	6	8	8	0.080	0.141	0.127	0.057	0.566	0.509	0.226
TAZE685*020L□L@5^++	E	6.8	20	1.5	0.450	4.500	5.400	6	8	8	0.090	0.245	0.220	0.098	0.367	0.331	0.147
TAZE106*020L□L@5^++	E	10	20	1.5	0.500	5.000	6.000	6	8	8	0.090	0.245	0.220	0.098	0.367	0.331	0.147
TAZF156*020L□L@5^++	F	15	20	0.8	0.750	7.500	9.000	6	8	8	0.100	0.354	0.318	0.141	0.283	0.255	0.113
TAZG156*020L□L@5^++	G	15	20	0.275	0.750	7.500	9.000	6	8	8	0.125	0.674	0.607	0.270	0.185	0.167	0.074
TAZG226*020L□L@5^++	G	22	20	0.625	1.100	11.000	13.200	6	8	8	0.125	0.447	0.402	0.179	0.280	0.252	0.112
TAZH226*020L□L@5^++	H	22	20	0.18	1.100	11.000	13.200	6	8	8	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZH476*020L□L@5^++	H	47	20	0.18	2.350	23.500	28.200	8	10	10	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZA334*025L□L@5^++	A	0.33	25	15	0.100	1.000	1.200	6	8	8	0.050	0.058	0.052	0.023	0.866	0.779	0.346
TAZB105*025L□L@5^++	B	1	25	4	0.160	1.600	1.920	6	8	8	0.070	0.132	0.119	0.053	0.529	0.476	0.212
TAZD155*025L□L@5^++	D	1.5	25	1.7	0.200	2.000	2.400	6	8	8	0.080	0.217	0.195	0.087	0.369	0.332	0.148
TAZD225*025L□L@5^++	D	2.2	25	2	0.215	2.150	2.580	6	8	8	0.080	0.200	0.180	0.080	0.400	0.360	0.160
TAZE225*025L□L@5^++	E	2.2	25	1	0.230	2.300	2.760	6	8	8	0.090	0.300	0.270	0.120	0.300	0.270	0.120
TAZE335*025L□L@5^++	E	3.3	25	1.2	0.245	2.450	2.940	6	8	8	0.090	0.274	0.246	0.110	0.329	0.296	0.131
TAZF475*025L□L@5^++	F	4.7	25	0.7	0.294	2.938	3.525	6	8	8	0.100	0.378	0.340	0.151	0.265	0.238	0.106
TAZF685*025L□L@5^++	F	6.8	25	0.8	0.425	4.250	5.100	6	8	8	0.100	0.354	0.318	0.141	0.283	0.255	0.113
TAZG106*025L□L@5^++	G	10	25	0.35	0.625	6.250	7.500	6	8	8	0.125	0.598	0.538	0.239	0.209	0.188	0.084
TAZH226*025L□L@5^++	H	22	25	0.18	1.375	13.750	16.500	6	8	8	0.150	0.913	0.822	0.365	0.164	0.148	0.066
TAZA224*035L□L@5^++	A	0.22	35	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZB474*035L□L@5^++	B	0.47	35	6.8	0.100	1.000	1.200	6	8	8	0.070	0.101	0.091	0.041	0.690	0.621	0.276
TAZD105*035L□L@5^++	D	1	35	2.2	0.100	1.000	1.200	6	8	8	0.080	0.191	0.172	0.076	0.420	0.378	0.168
TAZF335*035L□L@5^++	F	3.3	35	0.7	0.289	2.888	3.465	6	8	8	0.100	0.378	0.340	0.151	0.265	0.238	0.106
TAZH106*035L□L@5^++	H	10	35	0.5	0.875	8.750	10.500	8	10	10	0.150	0.548	0.493	0.219	0.274	0.246	0.110
TAZA104*050L□L@5^++	A	0.1	50	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZA154*050L□L@5^++	A	0.15	50	12	0.100	1.000	1.200	6	8	8	0.050	0.065	0.058	0.026	0.775	0.697	0.310
TAZE105*050L□L@5^++	E	1	50	1.7	0.125	1.250	1.500	6	8	8	0.090	0.230	0.207	0.092	0.391	0.352	0.156
TAZF225*050L□L@5^++	F	2.2	50	0.7	0.275	2.750	3.300	6	8	8	0.100	0.378	0.340	0.151	0.265	0.238	0.106
TAZG335*050L□L@5^++	G	3.3	50	0.5	0.413	4.125	4.950	6	8	8	0.125	0.500	0.450	0.200	0.250	0.225	0.100

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